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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/937,519	03/05/2002	Guido Krupp	P-UX 4977	9641

41552 7590 12/05/2005

MCDERMOTT, WILL & EMERY  
4370 LA JOLLA VILLAGE DRIVE, SUITE 700  
SAN DIEGO, CA 92122

EXAMINER

STRZELECKA, TERESA E

ART UNIT	PAPER NUMBER
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1637

DATE MAILED: 12/05/2005

Please find below and/or attached an Office communication concerning this application or proceeding.

**UNITED STATES DEPARTMENT OF COMMERCE****U.S. Patent and Trademark Office**

Address: COMMISSIONER FOR PATENTS

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APPLICATION NO./ CONTROL NO.	FILING DATE	FIRST NAMED INVENTOR / PATENT IN REEXAMINATION	ATTORNEY DOCKET NO.
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EXAMINER

ART UNIT

PAPER

30112005

DATE MAILED:

**Please find below and/or attached an Office communication concerning this application or proceeding.**

**Commissioner for Patents**

1. The reply filed on September 12, 2005 is not fully responsive to the prior Office Action because of the following omission(s) or matter(s): pages 4 and 5 of the Response, which contain amendments to the specification concerning sequences, do not contain SEQ ID NOs in lines 5, 6, 14 and 17 of page 4 and on the last line of page 5. See 37 CFR 1.111. Since the above-mentioned reply appears to be bona fide, applicant is given ONE (1) MONTH or THIRTY (30) DAYS from the mailing date of this notice, whichever is longer, within which to supply the omission or correction in order to avoid abandonment. EXTENSIONS OF THIS TIME PERIOD MAY BE GRANTED UNDER 37 CFR 1.136(a).

2. Enclosed is the bona fide letter, Notice to Comply and copy of the "Raw Sequence Listing Error Report" regarding sequence listing submitted by Applicants on September 12, 2005.

**Conclusion**

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Teresa E. Strzelecka whose telephone number is (571) 272-0789. The examiner can normally be reached on M-F (8:30-5:30).

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Gary Benzion can be reached on (571) 272-0782. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

**TERESA STRZELECKA**  
**PATENT EXAMINER**

*Teresa Strzelecka*  
*11/30/05*



## UNITED STATES PATENT AND TRADEMARK OFFICE

COMMISSIONER FOR PATENTS  
UNITED STATES PATENT AND TRADEMARK OFFICE  
WASHINGTON, DC 20231  
www.uspto.gov

APPLICATION NO./ CONTROL NO.	FILING DATE	FIRST NAMED INVENTOR / PATENT IN REEXAMINATION	ATTORNEY DOCKET NO.
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EXAMINER
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ART UNIT	PAPER
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30112005

DATE MAILED:

Please find below and/or attached an Office communication concerning this application or proceeding.

Commissioner of Patents

The communication filed September 12, 2005 is not fully responsive to the Office communication mailed March 11, 2005 for the reason(s) set forth on the attached Notice To Comply With The Sequence Rules or CRF Diskette Problem Report. Applicant must comply with the requirements of the sequence rules (37 CFR 1.821 - 1.825) before the application can be examined under 35 U.S.C. §§ 131 and 132.

Since the reply appears to be bona fide attempt to comply with the requirements of the sequence rules (37 CFR 1.821 - 1.825), applicant is given a TIME PERIOD of ONE (1) MONTH from the mailing date of this communication within which to correct the deficiency so as to comply with the sequence rules (37 CFR 1.821 - 1.825) in order to avoid abandonment of the application under 37 CFR 1.821(g). EXTENSIONS OF THIS TIME PERIOD MAY BE GRANTED UNDER 37 CFR 1.136(a).

Any inquiry concerning this communication should be directed to Examiner Teresa Strzelecka, Art Unit 1637, whose telephone number is (571)-272-0789.

Any inquiry of a general nature or relating to the status of this application should be directed to the Technology Center receptionist whose telephone number is (703) 308-0196.

TERESA STRZELECKA  
PATENT EXAMINER

*Teresa Strzelecka*  
11/30/05

## Notice to Comply

Application No.

09/937,519

Examiner

Teresa E. Strzelecka

Applicant(s)

KRUPP, GUIDO

Art Unit

1637

### NOTICE TO COMPLY WITH REQUIREMENTS FOR PATENT APPLICATIONS CONTAINING NUCLEOTIDE SEQUENCE AND/OR AMINO ACID SEQUENCE DISCLOSURES

Applicant must file the items indicated below within the time period set the Office action to which the Notice is attached to avoid abandonment under 35 U.S.C. § 133 (extensions of time may be obtained under the provisions of 37 CFR 1.136(a)).

The nucleotide and/or amino acid sequence disclosure contained in this application does not comply with the requirements for such a disclosure as set forth in 37 C.F.R. 1.821 - 1.825 for the following reason(s):

- ☒ 1. This application clearly fails to comply with the requirements of 37 C.F.R. 1.821-1.825. Applicant's attention is directed to the final rulemaking notice published at 55 FR 18230 (May 1, 1990), and 1114 OG 29 (May 15, 1990). If the effective filing date is on or after July 1, 1998, see the final rulemaking notice published at 63 FR 29620 (June 1, 1998) and 1211 OG 82 (June 23, 1998).
- ☐ 2. This application does not contain, as a separate part of the disclosure on paper copy, a "Sequence Listing" as required by 37 C.F.R. 1.821(c).
- ☐ 3. A copy of the "Sequence Listing" in computer readable form has not been submitted as required by 37 C.F.R. 1.821(e).
- ☒ 4. A copy of the "Sequence Listing" in computer readable form has been submitted. However, the content of the computer readable form does not comply with the requirements of 37 C.F.R. 1.822 and/or 1.823, as indicated on the attached copy of the marked -up "Raw Sequence Listing."
- ☐ 5. The computer readable form that has been filed with this application has been found to be damaged and/or unreadable as indicated on the attached CRF Diskette Problem Report. A Substitute computer readable form must be submitted as required by 37 C.F.R. 1.825(d).
- ☐ 6. The paper copy of the "Sequence Listing" is not the same as the computer readable form of the "Sequence Listing" as required by 37 C.F.R. 1.821(e).
- ☐ 7. Other:

#### Applicant Must Provide:

- ☒ An initial or substitute computer readable form (CRF) copy of the "Sequence Listing".
- ☒ An initial or substitute paper copy of the "Sequence Listing", as well as an amendment directing its entry into the specification.
- ☒ A statement that the content of the paper and computer readable copies are the same and, where applicable, include no new matter, as required by 37 C.F.R. 1.821(e) or 1.821(f) or 1.821(g) or 1.825(b) or 1.825(d).

For questions regarding compliance to these requirements, please contact:

For Rules Interpretation, call (703) 308-4216

For CRF Submission Help, call (703) 308-4212

PatentIn Software Program Support

Technical Assistance.....703-287-0200

To Purchase PatentIn Software.....703-306-2600

**PLEASE RETURN A COPY OF THIS NOTICE WITH YOUR REPLY**

## STIC Biotechnology Systems Branch

### RAW SEQUENCE LISTING ERROR REPORT

The Biotechnology Systems Branch of the Scientific and Technical Information Center (STIC) detected errors when processing the following computer readable form:

Application Serial Number: 09/937,519  
Source: FW/6  
Date Processed by STIC: 9/19/05

THE ATTACHED PRINTOUT EXPLAINS DETECTED ERRORS.

PLEASE FORWARD THIS INFORMATION TO THE APPLICANT BY EITHER:

- 1) INCLUDING A COPY OF THIS PRINTOUT IN YOUR NEXT COMMUNICATION TO THE APPLICANT, WITH A NOTICE TO COMPLY or,
- 2) TELEPHONING APPLICANT AND FAXING A COPY OF THIS PRINTOUT, WITH A NOTICE TO COMPLY

FOR CRF SUBMISSION AND PATENTIN SOFTWARE QUESTIONS, PLEASE CONTACT MARK SPENCER, TELEPHONE: 571-272-2510; FAX: 571-273-0221

TO REDUCE ERRORED SEQUENCE LISTINGS, PLEASE USE THE CHECKER VERSION 4.2.2 PROGRAM, ACCESSIBLE THROUGH THE U.S. PATENT AND TRADEMARK OFFICE WEBSITE. SEE BELOW FOR ADDRESS:

<http://www.uspto.gov/web/offices/pac/checker/chkrnote.htm>

Applicants submitting genetic sequence information electronically on diskette or CD-Rom should be aware that there is a possibility that the disk/CD-Rom may have been affected by treatment given to all incoming mail. Please consider using alternate methods of submission for the disk/CD-Rom or replacement disk/CD-Rom.

Any reply including a sequence listing in electronic form should NOT be sent to the 20231 zip code address for the United States Patent and Trademark Office, and instead should be sent via the following to the indicated addresses:

1. EFS-Bio (<<http://www.uspto.gov/ebc/efs/downloads/documents.htm>> , EFS Submission User Manual - ePAVE)
2. U.S. Postal Service: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450
3. Hand Carry, Federal Express, United Parcel Service, or other delivery service (EFFECTIVE 01/14/05): U.S. Patent and Trademark Office, Mail Stop Sequence, Customer Window, Randolph Building, 401 Dulany Street, Alexandria, VA 22314

Revised 01/24/05


## Raw Sequence Listing Error Summary

### ERROR DETECTED

### SUGGESTED CORRECTION

SERIAL NUMBER: 09/937,519

ATTN: NEW RULES CASES: PLEASE DISREGARD ENGLISH "ALPHA" HEADERS, WHICH WERE INSERTED BY PTO SOFTWARE

- 1      Wrapped Nucleics  
    Wrapped Aminos     The number/text at the end of each line "wrapped" down to the next line. This may occur if your file was retrieved in a word processor after creating it. Please adjust your right margin to .3; this will prevent "wrapping."
- 2      Invalid Line Length     The rules require that a line not exceed 72 characters in length. This includes white spaces.
- 3      Misaligned Amino  
    Numbering     The numbering under each 5<sup>th</sup> amino acid is misaligned. Do not use tab codes between numbers; use space characters, instead.
- 4      Non-ASCII     The submitted file was not saved in ASCII(DOS) text, as required by the Sequence Rules. Please ensure your subsequent submission is saved in ASCII text.
- 5      Variable Length     Sequence(s)      contain n's or Xaa's representing more than one residue. Per Sequence Rules, each n or Xaa can only represent a single residue. Please present the maximum number of each residue having variable length and indicate in the <220>-<223> section that some may be missing.
- 6      PatentIn 2.0  
    "bug"     A "bug" in PatentIn version 2.0 has caused the <220>-<223> section to be missing from amino acid sequences(s)     . Normally, PatentIn would automatically generate this section from the previously coded nucleic acid sequence. Please manually copy the relevant <220>-<223> section to the subsequent amino acid sequence. This applies to the mandatory <220>-<223> sections for Artificial or Unknown sequences.
- 7      Skipped Sequences  
    (OLD RULES)     Sequence(s)      missing. If intentional, please insert the following lines for each skipped sequence:  
                               (2) INFORMATION FOR SEQ ID NO:X: (insert SEQ ID NO where "X" is shown)  
                               (i)     SEQUENCE CHARACTERISTICS: (Do not insert any subheadings under this heading)  
                               (xi)  SEQUENCE DESCRIPTION:SEQ ID NO:X: (insert SEQ ID NO where "X" is shown)  
                               This sequence is intentionally skipped  
  
                               Please also adjust the "(ii) NUMBER OF SEQUENCES:" response to include the skipped sequences.
- 8      Skipped Sequences  
    (NEW RULES)     Sequence(s)      missing. If intentional, please insert the following lines for each skipped sequence.  
                               <210> sequence id number  
                               <400> sequence id number  
                               000
- 9      Use of n's or Xaa's  
    (NEW RULES)     Use of n's and/or Xaa's have been detected in the Sequence Listing.  
                               Per 1.823 of Sequence Rules, use of <220>-<223> is MANDATORY if n's or Xaa's are present.  
                               In <220> to <223> section, please explain location of n or Xaa, and which residue n or Xaa represents.
- 10      Invalid <213>  
    Response     Per 1.823 of Sequence Rules, the only valid <213> responses are: Unknown, Artificial Sequence, or scientific name (Genus/species). <220>-<223> section is required when <213> response is Unknown or is Artificial Sequence
- 11      Use of <220>  
          Sequence(s)      missing the <220> "Feature" and associated numeric identifiers and responses.  
                               Use of <220> to <223> is MANDATORY if <213> "Organism" response is "Artificial Sequence" or "Unknown." Please explain source of genetic material in <220> to <223> section.  
                               (See "Federal Register," 06/01/1998, Vol. 63, No. 104, pp. 29631-32) (Sec. 1.823 of Sequence Rules)
- 12      PatentIn 2.0  
    "bug"     Please do not use "Copy to Disk" function of PatentIn version 2.0. This causes a corrupted file, resulting in missing mandatory numeric identifiers and responses (as indicated on raw sequence listing). Instead, please use "File Manager" or any other manual means to copy file to floppy disk.
- 13      Misuse of n/Xaa     "n" can only represent a single nucleotide; "Xaa" can only represent a single amino acid



IFW16

## RAW SEQUENCE LISTING

PATENT APPLICATION: US/09/937,519

DATE: 09/19/2005

TIME: 10:23:32

Input Set : A:\66741-013; seq. listing

Output Set: N:\CRF4\09192005\I937519.raw

2 <110> APPLICANT: Krupp, Guido  
 4 <120> TITLE OF INVENTION: Detection of nucleic acid amplified products  
 6 <130> FILE REFERENCE: 66741-013  
 8 <140> CURRENT APPLICATION NUMBER: 09/937,519  
 9 <141> CURRENT FILING DATE: 2002-03-05  
 11 <150> PRIOR APPLICATION NUMBER: PCT/EP99/07127  
 12 <151> PRIOR FILING DATE: 1999-09-27  
 14 <150> PRIOR APPLICATION NUMBER: DE 199 15 141.5  
 15 <151> PRIOR FILING DATE: 1999-03-26  
 17 <160> NUMBER OF SEQ ID NOS: 202  
 19 <170> SOFTWARE: PatentIn Ver. 2.1  
 21 <210> SEQ ID NO: 1  
 22 <211> LENGTH: 4  
 23 <212> TYPE: DNA  
 24 <213> ORGANISM: artificial sequence  
 26 <220> FEATURE:  
 28 <220> FEATURE: *delete extra <220> (global error)*  
 29 <223> OTHER INFORMATION: Description of the molecule of DNA/RNA combination:  
 30 artificial DNA sequence  
 32 <220> FEATURE:  
 33 <223> OTHER INFORMATION: Description of the artificial sequence: artificial  
 34 RNA sequence  
 36 <400> SEQUENCE: 1  
 37 gaaa  
 40 <210> SEQ ID NO: 2  
 41 <211> LENGTH: 7  
 42 <212> TYPE: DNA  
 43 <213> ORGANISM: artificial sequence  
 45 <220> FEATURE:  
 47 <220> FEATURE: *delete*  
 48 <223> OTHER INFORMATION: Description of the artificial sequence: artificial  
 49 RNA sequence  
 51 <400> SEQUENCE: 2  
 52 cugagga  
 55 <210> SEQ ID NO: 3  
 56 <211> LENGTH: 14  
 57 <212> TYPE: DNA  
 58 <213> ORGANISM: artificial sequence  
 60 <220> FEATURE:  
 62 <220> FEATURE:  
 63 <223> OTHER INFORMATION: Description of the artificial sequence: artificial  
 64 DNA sequence  
 66 <400> SEQUENCE: 3

*pp 1-7*  
 Does Not Comply  
 Corrected Diskette Needed

*insufficient  
 explanation -  
 give source  
 of genetic  
 material  
 (see item 11  
 on Enn  
 summary  
 sheet)*

*This is also a  
 combined DNA/RNA sequence*

W--> *pls need explanation (see p. 7)*

*insufficient*

## RAW SEQUENCE LISTING

PATENT APPLICATION: US/09/937,519

DATE: 09/19/2005

TIME: 10:23:32

Input Set : A:\66741-013; seq. listing

Output Set: N:\CRF4\09192005\I937519.raw

67 tccgagccgg wogr  
70 <210> SEQ ID NO: 4

14

71 &lt;211&gt; LENGTH: 16

72 &lt;212&gt; TYPE: DNA

73 &lt;213&gt; ORGANISM: artificial sequence

75 &lt;220&gt; FEATURE:

77 &lt;220&gt; FEATURE:

78 &lt;223&gt; OTHER INFORMATION: Description of the artificial sequence: artificial

79 DNA sequence

81 &lt;400&gt; SEQUENCE: 4

82 rggctagcha caacga

16

85 &lt;210&gt; SEQ ID NO: 5

86 &lt;211&gt; LENGTH: 13

87 &lt;212&gt; TYPE: DNA

88 &lt;213&gt; ORGANISM: artificial sequence

90 &lt;220&gt; FEATURE:

92 &lt;220&gt; FEATURE:

93 &lt;223&gt; OTHER INFORMATION: Description of the artificial sequence: artificial

94 RNA sequence

96 &lt;400&gt; SEQUENCE: 5

97 ggaaucgaaa cgc

13

100 &lt;210&gt; SEQ ID NO: 6

101 &lt;211&gt; LENGTH: 32

102 &lt;212&gt; TYPE: DNA

103 &lt;213&gt; ORGANISM: artificial sequence

105 &lt;220&gt; FEATURE:

106 &lt;221&gt; NAME/KEY: modified base

107 &lt;222&gt; LOCATION: (24). (25) (24)

108 &lt;223&gt; OTHER INFORMATION: modified nucleotide at position 24:

109 Pyridin-4-one (cf. Burgin et al., 1996)

111 &lt;220&gt; FEATURE:

112 &lt;223&gt; OTHER INFORMATION: Description of the artificial sequence: artificial

113 RNA/DNA sequence

115 &lt;220&gt; FEATURE:

116 &lt;221&gt; NAME/KEY: modified base

117 &lt;222&gt; LOCATION: (27). (28) (27)

118 &lt;223&gt; OTHER INFORMATION: modified nucleotide at position 27:

119 Pyridin-4-one (cf. Burgin et al., 1996)

121 &lt;400&gt; SEQUENCE: 6

W--&gt; 122 gcgtctagcg gaaacgtac tgangagatt cc

32

125 &lt;210&gt; SEQ ID NO: 7

126 &lt;211&gt; LENGTH: 22

127 &lt;212&gt; TYPE: DNA

128 &lt;213&gt; ORGANISM: artificial sequence

130 &lt;220&gt; FEATURE:

132 &lt;220&gt; FEATURE:

133 &lt;223&gt; OTHER INFORMATION: Description of the artificial sequence: artificial

134 RNA sequence

136 &lt;400&gt; SEQUENCE: 7

*Insufficient**also combined DNA/RNA**Insufficient**Keep this, but explain source of genetic material on another <223> line**why isn't this 'n' too? (since 'n' at location 24 is the same modified nucleotide)**this is also a combined DNA/RNA**Insufficient*



## RAW SEQUENCE LISTING

DATE: 09/19/2005

PATENT APPLICATION: US/09/937,519

TIME: 10:23:32

Input Set : A:\66741-013; seq. listing

Output Set: N:\CRF4\09192005\I937519.raw

137 gcagcuaugg aaayguuaaa ag 22

140 <210> SEQ ID NO: 8

141 <211> LENGTH: 40

142 <212> TYPE: DNA

143 <213> ORGANISM: artificial sequence

145 <220> FEATURE:

147 ~~<220> FEATURE:~~

148 <223> OTHER INFORMATION: Description of the artificial sequence: artificial RNA/DNA sequence

151 <220> FEATURE:

152 <221> NAME/KEY: modified base

153 <222> LOCATION: (29). (30) (29)

154 <223> OTHER INFORMATION: modified nucleotide at position 29: also, give source of Artificial Sequence on another <223> line

155 Pyridin-4-one (cf. Burgin et al., 1996)

157 <400> SEQUENCE: 8

W--> 158 ttttaacruc tagcggaac gctactgang acatagctgc 40

161 <210> SEQ ID NO: 9

162 <211> LENGTH: 54

163 <212> TYPE: DNA

164 <213> ORGANISM: artificial sequence

166 <220> FEATURE:

168 ~~<220> FEATURE:~~

169 <223> OTHER INFORMATION: Description of the artificial sequence: primer

171 <400> SEQUENCE: 9

172 aattctaata cgactcacta taggggtgcta tgtcacttcc ccttggttct ctca 54

175 <210> SEQ ID NO: 10

176 <211> LENGTH: 46

177 <212> TYPE: DNA

178 <213> ORGANISM: artificial sequence

180 <220> FEATURE:

182 ~~<220> FEATURE:~~

183 <223> OTHER INFORMATION: Description of the artificial sequence: primer

185 <400> SEQUENCE: 10

186 gaatctcatc agtagcgagt ggggggacat caagcagcca tgcaaa 46

189 <210> SEQ ID NO: 11

190 <211> LENGTH: 28

191 <212> TYPE: DNA

192 <213> ORGANISM: artificial sequence

194 <220> FEATURE:

196 ~~<220> FEATURE:~~

197 <223> OTHER INFORMATION: Description of the artificial sequence: (artificial) RNA sequence insufficient

198 RNA sequence

200 <400> SEQUENCE: 11

201 tgaaucaaaa cgcgaaagcg ucuagcgu 28

204 <210> SEQ ID NO: 12

205 <211> LENGTH: 46

206 <212> TYPE: DNA

207 <213> ORGANISM: artificial sequence

209 <220> FEATURE:

also, this is a combined DNA/RNA

## RAW SEQUENCE LISTING

PATENT APPLICATION: US/09/937,519

DATE: 09/19/2005

TIME: 10:23:32

Input Set : A:\66741-013; seq. listing

Output Set: N:\CRF4\09192005\I937519.raw

211 ~~<220>~~ FEATURE:  
 212 ~~<223>~~ OTHER INFORMATION: Description of the artificial sequence: primer  
 214 <400> SEQUENCE: 12  
 215 gaatctcatc agtagcgagt ggggggacat caagcagcca tgcaaa 46  
 218 <210> SEQ ID NO: 13  
 219 <211> LENGTH: 15  
 220 <212> TYPE: DNA  
 221 <213> ORGANISM: artificial sequence  
 223 ~~<220>~~ FEATURE:  
 225 ~~<220>~~ FEATURE:  
 226 ~~<223>~~ OTHER INFORMATION: Description of the artificial sequence: ~~artificial~~ *also this is a combined DNA/RNA*  
 227 ~~RNA sequence~~ *insufficient*  
 229 <400> SEQUENCE: 13 *Hydrolase*  
 230 tacguagucc gugcu 15  
 233 <210> SEQ ID NO: 14  
 234 <211> LENGTH: 13  
 235 <212> TYPE: DNA  
 236 <213> ORGANISM: artificial sequence  
 238 ~~<220>~~ FEATURE:  
 240 ~~<220>~~ FEATURE:  
 241 ~~<223>~~ OTHER INFORMATION: Description of the artificial sequence: primer  
 243 <400> SEQUENCE: 14  
 244 gcgtttcgat tcc 13  
 247 <210> SEQ ID NO: 15  
 248 <211> LENGTH: 142  
 249 <212> TYPE: DNA  
 250 <213> ORGANISM: Human immunodeficiency virus type 1  
 252 ~~<220>~~ FEATURE: *delete - no <2217, <2227, or <2237>, no <2207> is not needed*  
 254 <400> SEQUENCE: 15  
 255 agtgggggga catcaagcag ctatgcaaac gttaaaagat actatcaatg aggaagctgc 60  
 256 agaatgggac aggttacatc cagtacatgc agggcctatt ccaccaggcc agatgagaga 120  
 257 accaagggga agtgacatag ca 142  
 260 <210> SEQ ID NO: 16  
 261 <211> LENGTH: 24  
 262 <212> TYPE: DNA  
 263 <213> ORGANISM: artificial sequence  
 265 ~~<220>~~ FEATURE:  
 267 ~~<220>~~ FEATURE:  
 268 ~~<223>~~ OTHER INFORMATION: Description of the artificial sequence: ~~artificial~~ *insufficient*  
 269 ~~DNA sequence~~  
 271 <400> SEQUENCE: 16  
 272 agcagctatg gaaaygttaa aaga 24  
 275 <210> SEQ ID NO: 17  
 276 <211> LENGTH: 54  
 277 <212> TYPE: DNA  
 278 <213> ORGANISM: artificial sequence  
 280 ~~<220>~~ FEATURE:  
 282 ~~<220>~~ FEATURE:  
 283 <223> OTHER INFORMATION: Description of the artificial sequence: primer

## RAW SEQUENCE LISTING

DATE: 09/19/2005

PATENT APPLICATION: US/09/937,519

TIME: 10:23:32

Input Set : A:\66741-013; seq. listing

Output Set: N:\CRF4\09192005\I937519.raw

285 <400> SEQUENCE: 17  
 286 aattctaata cgactcacta tagggagtg ggggacatca agcagctatg gaaa 54  
 289 <210> SEQ ID NO: 18  
 290 <211> LENGTH: 42  
 291 <212> TYPE: DNA  
 292 <213> ORGANISM: artificial sequence  
 294 <220> FEATURE:  
 296 ~~<220> FEATURE:~~  
 297 <223> OTHER INFORMATION: Description of the artificial sequence: artificial  
 298 RNA sequence  
 300 <400> SEQUENCE: 18  
 301 gggagtg gggg gggacatcaag cagctatgga aayguuaaaa ga 42  
 304 <210> SEQ ID NO: 19  
 305 <211> LENGTH: 24  
 306 <212> TYPE: DNA  
 307 <213> ORGANISM: Escherichia coli  
 309 ~~<220> FEATURE:~~ delete  
 311 <400> SEQUENCE: 19  
 312 taatgtctgg gaaactgcct gatg 24  
 315 <210> SEQ ID NO: 20  
 316 <211> LENGTH: 24  
 317 <212> TYPE: DNA  
 318 <213> ORGANISM: Escherichia coli  
 320 ~~<220> FEATURE:~~  
 322 <400> SEQUENCE: 20  
 323 ataactactg gaaacggtag ctaa 24  
 326 <210> SEQ ID NO: 21  
 327 <211> LENGTH: 24  
 328 <212> TYPE: DNA  
 329 <213> ORGANISM: Escherichia coli  
 331 ~~<220> FEATURE:~~  
 333 ~~<400> SEQUENCE: 21~~  
 334 agtcagatgt gaaatccccg ggct 24  
 337 <210> SEQ ID NO: 22  
 338 <211> LENGTH: 24  
 339 <212> TYPE: DNA  
 340 <213> ORGANISM: Escherichia coli  
 342 ~~<220> FEATURE:~~  
 344 <400> SEQUENCE: 22  
 345 gtgtagcggg gaaatgcgta gaga 24  
 348 <210> SEQ ID NO: 23  
 349 <211> LENGTH: 24  
 350 <212> TYPE: DNA  
 351 <213> ORGANISM: Escherichia coli  
 353 ~~<220> FEATURE:~~  
 355 ~~<400> SEQUENCE: 23~~  
 356 gctcaggtgc gaaagcgtgg ggag 24  
 359 <210> SEQ ID NO: 24  
 360 <211> LENGTH: 24

also, this is  
 a combined DNA/RNA  
 insufficient

Please correct the types of error shown  
 on this page, in subsequent sequences  
 see p. 6 for MORE error

09/937,519

6

<210> 57  
<211> 24  
<212> DNA  
<213> *Vibrio parahaemolyticus*

<220>

<400> 57  
nattgcattt gaaactggca gact

24

"n" needs explanation (see p. 7)

same run in seqs. 170-171, 188, 195

VARIABLE LOCATION SUMMARY

PATENT APPLICATION: US/09/937,519

DATE: 09/19/2005

TIME: 10:23:33

Input Set : A:\66741-013; seq. listing

Output Set: N:\CRF4\09192005\I937519.raw

Use of n's or Xaa's (NEW RULES):

Use of n's and/or Xaa's have been detected in the Sequence Listing.

Use of <220> to <223> is MANDATORY if n's or Xaa's are present.

in <220> to <223> section, please explain location of n or Xaa, and which residue n or Xaa represents.

Seq#:2; N Pos. 5

Seq#:6; N Pos. 24

Seq#:8; N Pos. 29

Seq#:57; N Pos. 1

Seq#:170; N Pos. 18

Seq#:171; N Pos. 19

Seq#:188; N Pos. 24

Seq#:195; N Pos. 24

*These sequences lack explanation of "n"*

## VERIFICATION SUMMARY

PATENT APPLICATION: US/09/937,519

DATE: 09/19/2005

TIME: 10:23:33

Input Set : A:\66741-013; seq. listing

Output Set: N:\CRF4\09192005\I937519.raw

L:52 M:258 W: Mandatory Feature missing, <221> Tag not found for SEQ ID#:2  
L:52 M:258 W: Mandatory Feature missing, <222> Tag not found for SEQ ID#:2  
L:52 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:2 after pos.:0  
L:122 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:6 after pos.:0  
L:158 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:8 after pos.:0  
L:730 M:258 W: Mandatory Feature missing, <221> Tag not found for SEQ ID#:57  
L:730 M:258 W: Mandatory Feature missing, <222> Tag not found for SEQ ID#:57  
L:730 M:258 W: Mandatory Feature missing, <223> Tag not found for SEQ ID#:57  
L:730 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:57 after pos.:0  
L:1973 M:258 W: Mandatory Feature missing, <221> Tag not found for SEQ ID#:170  
L:1973 M:258 W: Mandatory Feature missing, <222> Tag not found for SEQ ID#:170  
L:1973 M:258 W: Mandatory Feature missing, <223> Tag not found for SEQ ID#:170  
L:1973 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:170 after pos.:0  
L:1984 M:258 W: Mandatory Feature missing, <221> Tag not found for SEQ ID#:171  
L:1984 M:258 W: Mandatory Feature missing, <222> Tag not found for SEQ ID#:171  
L:1984 M:258 W: Mandatory Feature missing, <223> Tag not found for SEQ ID#:171  
L:1984 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:171 after pos.:0  
L:2171 M:258 W: Mandatory Feature missing, <221> Tag not found for SEQ ID#:188  
L:2171 M:258 W: Mandatory Feature missing, <222> Tag not found for SEQ ID#:188  
L:2171 M:258 W: Mandatory Feature missing, <223> Tag not found for SEQ ID#:188  
L:2171 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:188 after pos.:0  
L:2248 M:258 W: Mandatory Feature missing, <221> Tag not found for SEQ ID#:195  
L:2248 M:258 W: Mandatory Feature missing, <222> Tag not found for SEQ ID#:195  
L:2248 M:258 W: Mandatory Feature missing, <223> Tag not found for SEQ ID#:195  
L:2248 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:195 after pos.:0